

Abstract

[0038] An electromagnetically operated valve assembly (28) has a first solenoid (58) and a second solenoid (60). An armature (56) having a valve stem (54) coupled thereto is positioned between the first solenoid (58) and second solenoid (60). A controller (12) is coupled to the first solenoid (58), the second solenoid (60). A current sensor (49) is coupled to the first solenoid and generated a signal corresponding to the induced current in the first solenoid. The controller (12) changes a voltage applied to the first solenoid from a first polarity to a second polarity. The controller (12) is further configured to hold the voltage at the second polarity for a predetermined time period and a predetermined amplitude to decrease the induced current. The predetermined time period or the predetermined amplitude is determined based on the first signal.

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2020100522E001